eosc

Winter School 2024

29 January - 1 February 2024 / Thessaloniki, Greece

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Task Forces and projects synergy work around opportunity areas

01.02.2024

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Opportunity Area 4: User and Resource Environments

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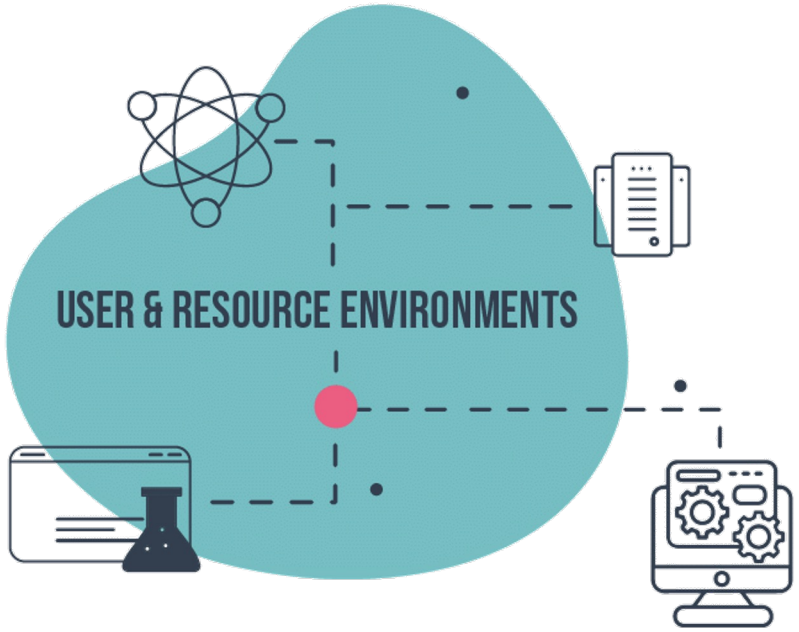

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OA 4 Participants

AI4 | EOSC

EOSC | RAISE

EOSC | EuroScienceGateway

EOSC | FAIR-EASE

EOSC | AquaINFRA

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OA 4 Objectives and Approach

Approach

We discussed challenges that are frequently encountered, with VREs at the center.

- We had presentations of the EOSC consortias
- We had demonstrations of VREs
- We discussed problems
- We had an interactive hands-on session
- We stared at code !!!!!1111!!!

Objectives

- Overview of EOSC tools and services facilitating data transfers, data discovery and data access as well as tools and services to orchestrate heterogeneous IT infrastructures.
- Align previous, current, and future VRE activities.

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OA 4 Session – Tuesday Afternoon

- presentations and discussions from the participating RI / EOSC partners
- Discussion highlights:
  - VRE is a not well defined term
  - Who should get access to VREs
    - access control vs. democratising resources
    - security aspects (abuse of resources vs. exploratory research)
  - “separation of concerns” - design your VRE with many abstraction levels
- Conclusions:
  - We learned what technologies other projects use

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- Conclusions:
  - We learned what technologies other projects use
  - the dessert (Cinnamon rolls 😋) was worth to stay until late in the restaurant

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OA 4 Session – Wednesday Morning

- EGI services, esp. Infrastructure Manager (IM) in action by AI4EOSC
- Galaxy tool development and Galaxy interactive tools (Jupyter, Desktop) for earth-systems (FAIR-EASE)
- Discussion highlights:
  - How does the IM works, who can use it
  - Metadata description of tools and services enable automatic Galaxy integration
  - How does Galaxy deal with containers (CVMFS, Docker, Singularity, podman …)

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OA 4 Session – Wednesday Afternoon

- Free style! Ask anything session
- Discussion highlights:
  - How does Galaxy work a deep dive
  - How does a USER get storage (MinIO S3) provided by EGI IM into Galaxy
  - FAIR workflows scheduled to Italy via distributed compute
- Conclusions:
  - distributed compute is possible for every user
  - data integration can be done on a user level
  - UX is essential for VREs

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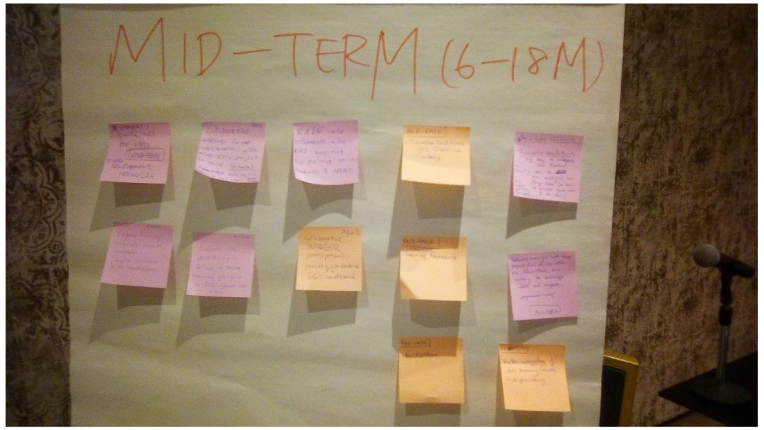
OA 4 Next Steps

Short-Term Opportunities / Priorities (next 6 months):

- FAIR-EASE + AquaInfra (replicate infrastructure)
- RAISE + AI4EOSC
- Quality Research Software (examples, best practices)
- 100.000 users
- EGI-checkin integration with Galaxy

Medium-Term Opportunities / Priorities (6-18 months):

- make use of more fancy AAI features (MFA, vetting …)
- Hackathon, Hackathon, more technical meeting, Hackathon,
- better integration of data discovery across EOSC projects
- common training framework (GTN?) → Skills4EOSC
- Guidelines for VM



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Did we mention already …

HACKATHON

Brainstorm

Development

Programing

Timing

Teamwork

Goal

OA 4 Next Steps

Long-Term Opportunities / Priorities (18+ months):

- Project starter kit (for follow up projects, TNG)
- explore evolution from VREs to trusted VREs (ENTRUST)
- (more) hardware resources and its sustainability
- sustainability concerns

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OA 4 Commitment

We are committed to get the recipe of the **Cinnamon rolls** and make it **FAIR**!

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We are committed to get the recipe of the **Cinnamon rolls** and make it **FAIR**!

And we will meet regularly - probably as part of the HE Technology Group - and we will get our tangible points from our 6 month list done.

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